

Variables

Status

V $S, 13, 32, 20, \mathbf{11}$

E $\langle S, 13 \rangle, \langle 13, 32 \rangle, \langle 20, 11 \rangle$

4. Update the graph G

Line 12 is executed:
Update V to $V \cup \{11\}$,
 E to $E \cup \{\langle 20, 11 \rangle\}$,
and v_l to 11.

S

u_1

2

3

2. Identify the first incoming edge

Line 5:

$\langle v_y = 20, v_x = 11 \rangle$ is identified.

11

v_x

12

13

u_2

14

15

16

17

18

3. Find additional incoming edges

Lines 6-11:

Identify the front nodes of candidate incoming edges $\langle u, 11 \rangle$:

$U \leftarrow \{S, 13, 32\}$.

Feasibility of $\langle S, 11 \rangle$ is tested, but identified as infeasible.

19

20

v_y

25

26

31

32

u_3

1. Feasibility test of edge $\langle v_l, D \rangle$

Line 4: $\langle 20, D \rangle$ is infeasible.

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